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## I. AMENDMENTS

## **AMENDMENTS TO THE CLAIMS**

Cancel claim 39 without prejudice to renewal.

Please enter the amendments to claims 34-38, 40, and 41, as shown below.

Please enter new claims 42-86, as shown below.

## 1.-33. (Canceled)

- 34. (Currently amended) An isolated A composition comprising a substantially pure, enzymatically active human plasma hyaluronidase polypeptide, wherein said polypeptide is glycosylated.
- 35. (Currently amended) The <u>composition</u> polypeptide of claim 34, wherein said <u>glycosylation</u> glycosylated polypeptide is sensitive to N-glycosidase-F treatment.
- 36. (Currently amended) The <u>composition</u> polypeptide of claim 34, wherein said glycosylation glycosylated polypeptide comprises a mannose residue.
- 37. (Currently amended) The <u>composition polypeptide</u> of claim 34, wherein said polypeptide further comprises a fatty acid modification.
- 38. (Currently amended) The <u>composition polypeptide</u> of claim 37, wherein said fatty acid modification is resistant to phospholipase-C, phospholipase-D, and N-glycosidase-F.
  - 39. (Canceled)
- 40. (Currently amended) The <u>composition polypeptide</u> of claim  $\underline{34}$  [[39]], wherein said polypeptide exhibits a specific activity of at least about  $6 \times 10^5$  relative turbidity reducing units per mg protein.

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41. (Currently amended) The <u>composition polypeptide</u> of claim 34, wherein said polypeptide has a relative molecular mass of about 57 kDa as determined by sodium dodecyl sulfate polyacrylamide gel electrophoresis.

- 42. (New) The composition of claim 34, wherein said polypeptide exhibits a specific activity of at least about  $2 \times 10^5$  relative turbidity reducing units per mg protein.
  - 43. (New) The composition of claim 34, wherein the polypeptide is at least 60% pure.
  - 44. (New) The composition of claim 34, wherein the polypeptide is at least 75% pure.
  - 45. (New) The composition of claim 34, wherein the polypeptide is at least 90% pure.
  - 46. (New) The composition of claim 34, wherein the polypeptide is at least 99% pure.
- 47. (New) A composition comprising a recombinant, substantially pure, enzymatically active human plasma hyaluronidase polypeptide, wherein said polypeptide is glycosylated.
- 48. (New) The composition of claim 47, wherein said glycosylated polypeptide is sensitive to N-glycosidase-F treatment.
- 49. (New) The composition of claim 47, wherein said glycosylated polypeptide comprises a mannose residue.
- 50. (New) The composition of claim 47, wherein said polypeptide further comprises a fatty acid modification.
- 51. (New) The composition of claim 50, wherein said fatty acid modification is resistant to phospholipase-C, phospholipase-D, and N-glycosidase-F.
- 52. (New) The composition of claim 47, wherein said polypeptide exhibits a specific activity of at least about  $2 \times 10^5$  relative turbidity reducing units per mg protein.

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53. (New) The composition of claim 47, wherein said polypeptide exhibits a specific activity of at least about  $6 \times 10^5$  relative turbidity reducing units per mg protein.

- 54. (New) The composition of claim 47, wherein said polypeptide has a relative molecular mass of about 57 kDa as determined by sodium dodecyl sulfate polyacrylamide gel electrophoresis.
  - 55. (New) The composition of claim 47, wherein the polypeptide is at least 60% pure.
  - 56. (New) The composition of claim 47, wherein the polypeptide is at least 75% pure.
  - 57. (New) The composition of claim 47, wherein the polypeptide is at least 90% pure.
  - 58. (New) The composition of claim 47, wherein the polypeptide is at least 99% pure.
  - 59. (New) A formulation comprising
- a) a therapeutically effective amount of a substantially pure, enzymatically active human plasma hyaluronidase polypeptide, wherein said polypeptide is glycosylated; and
  - b) a pharmaceutically acceptable carrier.
  - 60. (New) The formulation of claim 59, wherein the carrier is a liposome.
- 61. (New) The formulation of claim 59, wherein said polypeptide exhibits a specific activity of at least about  $2 \times 10^5$  relative turbidity reducing units per mg protein.
- 62. (New) The formulation of claim 59, wherein the human plasma hyaluronidase polypeptide is present at a concentration of about  $1.5 \times 10^5$  turbidity reducing units per milliliter of formulation.
- 63. (New) The formulation of claim 59, wherein said glycosylated polypeptide is sensitive to N-glycosidase-F treatment.

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64. (New) The formulation of claim 59, wherein said glycosylated polypeptide comprises a mannose residue.

- 65. (New) The formulation of claim 59, wherein said polypeptide further comprises a fatty acid modification.
- 66. (New) The formulation of claim 65, wherein said fatty acid modification is resistant to phospholipase-C, phospholipase-D, and N-glycosidase-F.
- 67. (New) The formulation of claim 59, wherein said polypeptide exhibits a specific activity of at least about  $6 \times 10^5$  relative turbidity reducing units per mg protein.
- 68. (New) The formulation of claim 59, wherein said polypeptide has a relative molecular mass of about 57 kDa as determined by sodium dodecyl sulfate polyacrylamide gel electrophoresis.
  - 69. (New) The formulation of claim 59, wherein the polypeptide is at least 60% pure.
  - 70. (New) The formulation of claim 59, wherein the polypeptide is at least 75% pure.
  - 71. (New) The formulation of claim 59, wherein the polypeptide is at least 90% pure.
  - 72. (New) The formulation of claim 59, wherein the polypeptide is at least 99% pure.
  - 73. (New) A formulation comprising
- a) a therapeutically effective amount of a recombinant, substantially pure, enzymatically active human plasma hyaluronidase polypeptide, wherein said polypeptide is glycosylated; and
  - b) a pharmaceutically acceptable carrier.
  - 74. (New) The formulation of claim 73, wherein the carrier is a liposome.
- 75. (New) The formulation of claim 73, wherein said polypeptide exhibits a specific activity of at least about  $2 \times 10^5$  relative turbidity reducing units per mg protein.

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76. (New) The formulation of claim 73, wherein the human plasma hyaluronidase polypeptide is present at a concentration of about  $1.5 \times 10^5$  turbidity reducing units per milliliter of formulation.

- 77. (New) The formulation of claim 73, wherein said glycosylated polypeptide is sensitive to N-glycosidase-F treatment.
- 78. (New) The formulation of claim 73, wherein said glycosylated polypeptide comprises a mannose residue.
- 79. (New) The formulation of claim 73, wherein said polypeptide further comprises a fatty acid modification.
- 80. (New) The formulation of claim 79, wherein said fatty acid modification is resistant to phospholipase-C, phospholipase-D, and N-glycosidase-F.
- 81. (New) The formulation of claim 73, wherein said polypeptide exhibits a specific activity of at least about  $6 \times 10^5$  relative turbidity reducing units per mg protein.
- 82. (New) The formulation of claim 73, wherein said polypeptide has a relative molecular mass of about 57 kDa as determined by sodium dodecyl sulfate polyacrylamide gel electrophoresis.
  - 83. (New) The formulation of claim 73, wherein the polypeptide is at least 60% pure.
  - 84. (New) The formulation of claim 73, wherein the polypeptide is at least 75% pure.
  - 85. (New) The formulation of claim 73, wherein the polypeptide is at least 90% pure.
  - 86. (New) The formulation of claim 73, wherein the polypeptide is at least 99% pure.